



Attorney Docket No. 50963

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANT: Doubrava et al.

U.S.S.N.: 10/051,370

Art Unit: 1754

FILED: January 18, 2002

Examiner: Not Yet Assigned

FOR: A METHOD FOR RECOVERING METALS

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**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231 on 4/15/02.

By: Deanna M. Rivernider  
Deanna M. Rivernider

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**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

**I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION**

The patents, publications or other information submitted for consideration by the Examiner are listed on the PTO-1449 form, attached hereto.

**II. COPIES**

Submitted herewith is a legible copy of (i) each U.S and foreign patent or English abstract of foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.

**III. CONCISE EXPLANATION OF THE RELEVANCE**

All of the patents, publications or other information are in the English language or were cited in an English language Search Report, a copy of which is attached hereto (concise explanation not required).

**FEES**

**IV. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(b)**  
(check one box)

- a. ☐ within three months of the filing date of a national application (37 C.F.R. § 1.97(b) (1)). No fee or certification is required.
- b. ☐ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b) (2)). No fee or certification is required.
- c. ☒ before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b) (3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below, or, if no certification has been made, charge our deposit account a fee in the amount of \$240.00 as required by 37 C.F.R. § 1.17(p).

**V. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(c):**  
(check one box)

before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c) (1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c) (2)).

- a. ☐ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. . § 1.17(p).
- or
- b. ☐ See the certification below. No fee is required.

**VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e) (check only one box)**

The undersigned hereby certifies that

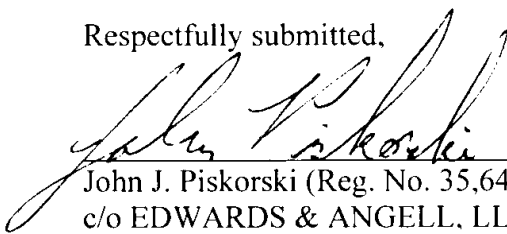
- a. ☐ each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS;  
or

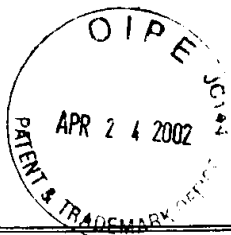
- b. ☐ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.
- c. ☐ Some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned certifies that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

- ☐ Enclosed please find a check in the amount of \$\_\_\_\_\_ for the above indicated fee.
- ☐ Please charge Deposit Account No. 04-1105 in the amount of \$180.00 for the above-indicated fee. A triplicate copy of this paper is attached.
- ☐ No fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition, if necessary) and charge the appropriate fee to Deposit Account No. 04-1105.


Respectfully submitted,

  
John J. Piskorski (Reg. No. 35,647)  
c/o EDWARDS & ANGELL, LLP  
Dike, Bronstein, Roberts & Cushman, IP Group  
P.O. Box 9169  
Boston, MA 02209  
(508) 229-7662



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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY DOCKET NO. 50963		SERIAL NO. 10/051,370	
				APPLICANT(S): Doubrava et al.			
				FILING DATE: January 18, 2002		ART UNIT: 1754	
UNITED STATES PATENT DOCUMENTS							
EXAM. INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPR
	AA	3,011,920	12/05/61	C.R. Shipley, Jr.			
	AB	3,532,518	10/06/70	D'Ottavio et al.			
	AC	4,020,009	04/26/77	Gulla			
	AD	4,085,066	04/18/78	Gulla			
	AE	4,120,819	10/17/78	Small			
	AF	4,164,481	08/14/79	Ma et al.			
	AG	4,223,173	09/16/80	Manziek			
	AH	4,227,899	10/14/80	Meny et al.			
	AI	4,240,909	12/23/80	Manziek			
	AJ	4,260,493	04/07/81	Kretas et al.			
	AK	4,261,738	04/14/81	Valentine et al.			
	AL	4,311,811	01/19/82	Manziek			
	AM	4,311,812	01/19/82	Manziek			
	AN	4,355,140	10/19/82	Manziek			
	AO	4,410,665	10/18/83	Manziek			
	AP	4,420,401	12/13/83	Kretas et al.			
	AQ	4,435,258	03/06/84	Melka, Jr. et al.			
	AR	4,593,016	06/03/86	Amelio et al.			
	AS	5,009,965	04/23/91	Feldstein			
	AT	5,047,563	09/10/91	Denton et al.			
	AU	5,213,895	05/25/93	Hirai et al.			
	AV	5,247,078	09/21/93	Champion et al.			
	AW	5,302,183	04/12/94	De Boer et al.			
	AX	5,304,233	04/19/94	Awadalla et al.			
	AY	5,914,195	06/22/99	Hori et al.			
	AZ	6,147,225	11/14/00	Gaboury et al.			
	BA	6,169,045	01/02/01	Pike et al.			
Examiner:				Date:			

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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN YES/NO
	CA	224 741	08/01/85	Czechoslovakia			Yes
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
	DA	Disclosed Anonymously, Research Disclosure No. 31448, "Reclamation of Palladium from Colloidal Seeder Solution", June 1990, pg. 493.					
	DB	American Metal Market Publication, "Precious Metals, Platinum Group Can be Recovered with Hydrometallurgy", July 6, 1983, pp. 13.					
	DC	Izatt et al., "Extraction and Recovery of Precious Metals from Plating Solutions Using Molecular Recognition Technology", IBC Advanced Technologies Paper, April 2000, pp. 1-15.					
	DD	Draye et al., "Selective Extraction of Palladium From Acidic Nitrate Solutions with Thiamacrocycles-Synergized Dinonylnaphthalenesulfonic Acid Systems", Journal of Radioanalytical and Nuclear Chemistry, Vol. 220, No. 1(1997) pp. 105-107.					
	DE	L. Shengquiang Pang, "Improvements in the Recovery of Palladium From Reprocessing Waste of Spent Nuclear Fuel Reported Earlier", Journal of Radioanalytical and Nuclear Chemistry, Articles, Vol. 189. No. 1 (1995)pp. 59-63.					
	DF	V. Guy et al., "Lipophilic Polythiamacrocycles as Palladium Extracting Agents", Tetrahedron Vol. 5, No. 14, 1995, pp. 4065-4074.					
	DG	Letowski et al., "Platinum and Palladium Recovery From Spent Catalysts By Aluminum Chloride Leaching", Proceedings of the International Symposium on Recycle and Secondary Recovery of Metals and the Fall Extractive and Process Metallurgy meeting sponsored by the Physical Chemistry Committee of the Metallurgical Society of AIME Held in Fort Lauderdale, Florida, December 1-4, 1985, pp. 735-745.					
	DH	Saito et al., "Synthesis of Thiacrown Ether Carboxylic Acids and Their Characteristics as Extractants for Metal Ions", Analytica Chimica Acta 299 (1994) pp. 137-144.					
	DI	B. Godlewska-Zylkiewicz et al., "Ion-Exchange Preconcentration and Separation of Trace Amounts of Platinum and Palladium", Analytical Letters, 33(13), 2000, pp. 2805-2820.					
	DJ	L. Shengquiang, "Improvements in the Recovery of Palladium From Reprocessing Waste of Spent Nuclear Fuel Reported Earlier", Journal of Radioanalytical and Nuclear Chemistry, Articles, Vol. 189, No. 1(1995), pp. 59-63.					
Examiner:				Date:			